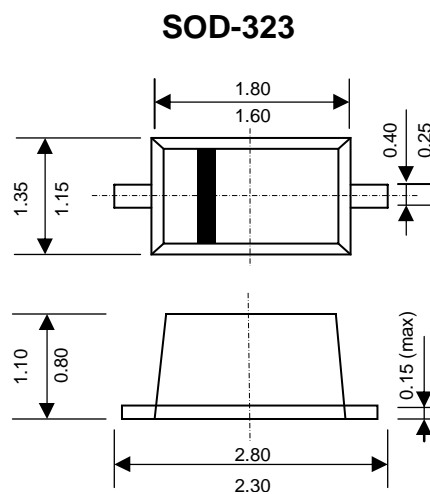


SCHOTTKY BARRIER DIODES

FEATURES :

- * For general purpose applications
- * The SD103 series is a metal-on-silicon Schottky barrier device which is protected by a PN junction guard ring.
- * The low forward voltage drop and fast switching make it ideal for protection of MOS devices, steering, biasing and coupling diodes for fast switching and low logic level applications.
- * These diodes are also available in the MiniMELF case with type designations LL103A thru LL103C.



Dimensions in millimeters

Maximum Ratings and Thermal Characteristics (T_C = 25 °C unless otherwise noted)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	SD103AWS	40	V
	SD103BWS	30	
	SD103CWS	20	
Maximum Single Cycle Surge 10 μs Square Wave	I _{FSM}	2	A
Power Dissipation (Infinite Heat Sink)	P _{tot}	150 ⁽¹⁾	mW
Thermal Resistance Junction to Ambient Air	R _{θJA}	650 ⁽¹⁾	°C/W
Junction Temperature	T _J	125 ⁽¹⁾	°C
Storage temperature range	T _{STG}	-55 to + 150	°C

Electrical Characteristics (T_J = 25°C unless otherwise noted)

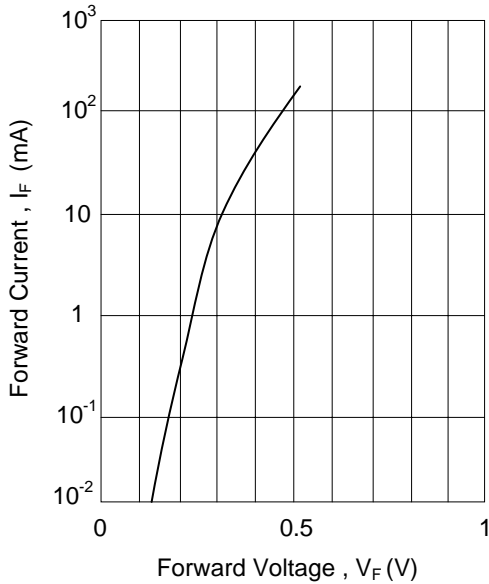
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Current	SD103AWS	V _R = 30 V	-	-	5	μA
	SD103BWS	V _R = 20 V	-	-	5	
	SD103CWS	V _R = 10 V	-	-	5	
Forward Voltage Drop	V _F	I _F = 20mA	-	-	0.37	V
		I _F = 200mA	-	-	0.60	
Junction Capacitance	C _{tot}	V _R = 0 V, f = 1MHz	-	50	-	pF
Reverse Recovery Time	T _{rr}	I _F = I _R = 50mA to 200mA recover to 0.1I _R	-	10	-	ns

Note:

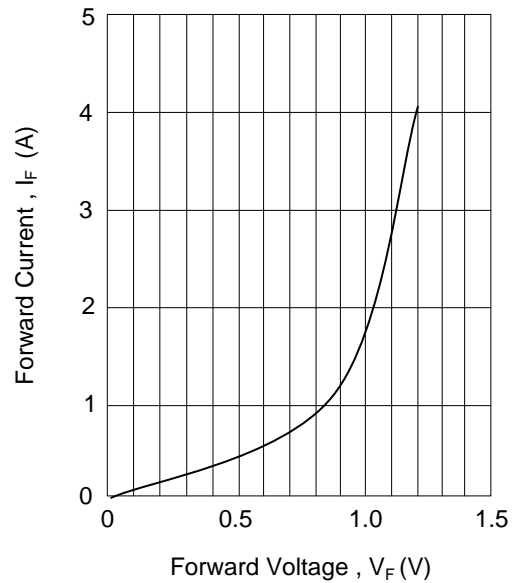
(1) Valid provided that electrodes are kept at ambient temperature.

RATING AND CHARACTERISTIC CURVES (SD103AWS - SD103CWS)

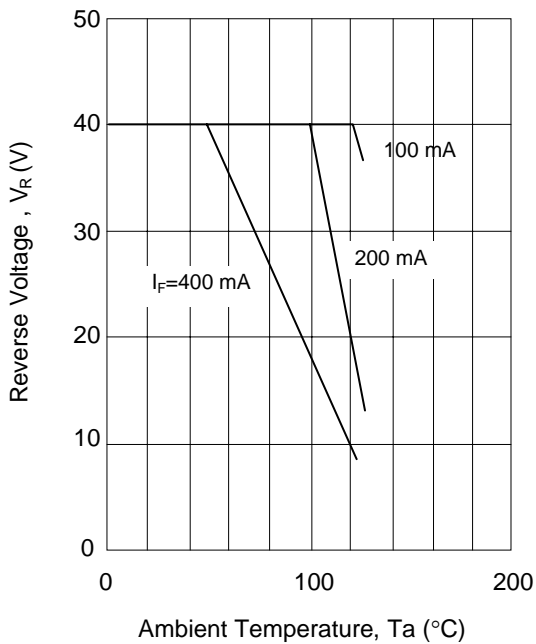
Typical variation of forward current vs. forward voltage for primary conduction through the schottky barrier



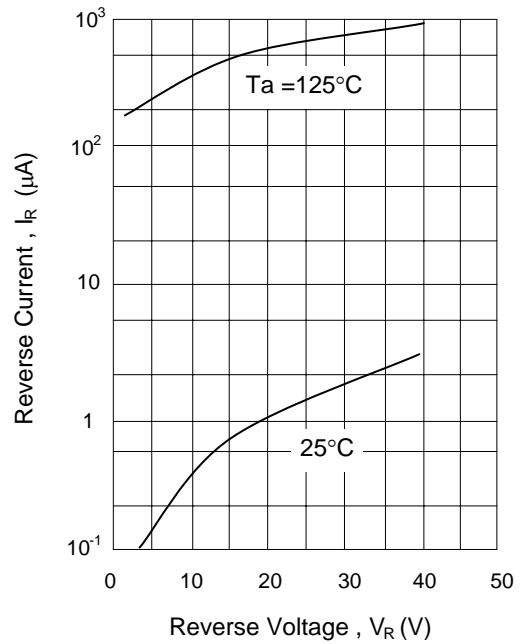
Typical high current forward conduction curve
 $t_p = 300ms$, duty cycle = 2%



Blocking voltage deration versus temperature at various average forward currents



Typical variation of reverse current at various temperatures



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Schottky Diodes & Rectifiers](#) category:

Click to view products by [SLKORMICRO](#) manufacturer:

Other Similar products are found below :

[CUS06\(TE85L,Q,M\)](#) [MA4E2039](#) [D1FH3-5063](#) [MBR0530L-TP](#) [MBR10100CT-BP](#) [MBR30H100MFST1G](#) [MMBD301M3T5G](#) [PMAD1103-LF](#) [PMAD1108-LF](#) [RB160M-50TR](#) [RB520S-30](#) [RB551V-30](#) [DD350N18K](#) [DZ435N40K](#) [DZ600N16K](#) [BAS16E6433HTMA1](#) [BAS 3010S-02LRH E6327](#) [BAT 54-02LRH E6327](#) [IDL02G65C5XUMA1](#) [NSR05F40QNXT5G](#) [NSVR05F40NXT5G](#) [JANS1N6640](#) [SB07-03C-TB-H](#) [SB1003M3-TL-W](#) [SBAT54CWT1G](#) [SBM30-03-TR-E](#) [SBS818-TL-E](#) [SK32A-LTP](#) [SK33A-TP](#) [SK34A-TP](#) [SK34B-TP](#) [SMD1200PL-TP](#) [ACDBN160-HF](#) [SS3003CH-TL-E](#) [STPS30S45CW](#) [PDS3100Q-7](#) [GA01SHT18](#) [CRS10I30A\(TE85L,QM\)](#) [MBR1240MFST1G](#) [MBRB30H30CT-1G](#) [BAS28E6433HTMA1](#) [BAS 70-02L E6327](#) [HSB123JTR-E](#) [JANTX1N5712-1](#) [VS-STPS40L45CW-N3](#) [DD350N12K](#) [SB007-03C-TB-E](#) [SB10015M-TL-E](#) [SB1003M3-TL-E](#) [SK110-LTP](#)